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PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. MERCK-2286

First Inventor Kazuaki Tarumi et al.

Title LIQUID-CRYSTALLINE MEDIUM AND LIQUID-CRYSTAL DISPLAY

Express Mail Label No.

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 38]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 0]
5. ☒ Oath or Declaration [Total Pages ]
  - ☒ Newly executed (original or copy)
  - ☐ Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)
  - ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☐ paper
  - c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☒ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No. \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label



23599

PATENT TRADEMARK OFFICE

or ☐ Correspondence address below

Name

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

John A. Sopp

Registration No. (Attorney/Agent)

33,103

Signature

Date

August 3, 2001

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**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision.

**Complete if Known**

|                      |                |
|----------------------|----------------|
| Application Number   | Not Assigned   |
| Filing Date          | August 3, 2001 |
| First Named Inventor | Tarumi et al.  |
| Examiner Name        | Not Assigned   |
| Group / Art Unit     | Not Assigned   |
| Attorney Docket No.  | MERCK-2286     |

TOTAL AMOUNT OF PAYMENT (\$ ) 750

**METHOD OF PAYMENT (check one)**1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:Deposit  
Account  
Number

13-3402

Deposit  
Account  
Name

Millen, White, Zelano &amp; Branigan, P.C.

- ☒ Charge Any Additional Fee Required  
Under 37 CFR 1.16 and 1.17
- ☐ Applicant claims small entity status.  
See 37 CFR 1.27

2. ☒ Payment Enclosed:

- ☒ Check ☐ Credit card ☐ Money  
Order ☐ Other

**FEE CALCULATION****1. BASIC FILING FEE**

| Large<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Small<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Fee Description        | Fee Paid |
|----------------------|-----------------------|----------------------|-----------------------|------------------------|----------|
| 101                  | 710                   | 201                  | 355                   | Utility filing fee     | 710      |
| 106                  | 320                   | 206                  | 160                   | Design filing fee      |          |
| 107                  | 490                   | 207                  | 245                   | Plant filing fee       |          |
| 108                  | 710                   | 208                  | 355                   | Reissue filing fee     |          |
| 114                  | 150                   | 214                  | 75                    | Provisional filing fee |          |

SUBTOTAL (1)

(\$ ) 710

**2. EXTRA CLAIM FEES**

| Total Claims          | Extra<br>Claims | Fee from<br>below | Fee<br>Paid |   |
|-----------------------|-----------------|-------------------|-------------|---|
| 15                    | -20** = 0       | X                 | 0           |   |
| Independent<br>Claims | 1               | -3** = 0          | X           | 0 |
| Multiple<br>Dependent |                 | X                 | 0           |   |

| Large<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Small<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Fee Description  |
|----------------------|-----------------------|----------------------|-----------------------|--|
| 103                  | 18                    | 203                  | 9                     | Claims in excess of 20                                     |
| 102                  | 80                    | 202                  | 40                    | Independent claims in excess of 3                          |
| 104                  | 270                   | 204                  | 135                   | Multiple dependent claim, if not paid                      |
| 109                  | 80                    | 209                  | 40                    | ** Reissue independent claims over original patent         |
| 110                  | 18                    | 210                  | 9                     | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2)

(\$ ) 0

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)**

| Fee<br>Code | Large<br>Entity<br>Fee<br>(\$) | Fee<br>Code | Small<br>Entity<br>Fee<br>(\$) | Fee Description  | Fee<br>Paid |
|-------------|--------------------------------|-------------|--------------------------------|--|-------------|
| 105         | 130                            | 205         | 65                             | Surcharge - late filing fee or oath  |             |
| 127         | 50                             | 227         | 25                             | Surcharge - late provisional filing fee or cover sheet                     |             |
| 139         | 130                            | 139         | 130                            | Non-English specification  |             |
| 147         | 2,520                          | 147         | 2,520                          | For filing a request for reexamination                                     |             |
| 112         | 920*                           | 112         | 920*                           | Requesting publication of SIR prior to Examiner action                     |             |
| 113         | 1,840*                         | 113         | 1,840*                         | Requesting publication of SIR after Examiner action                        |             |
| 115         | 110                            | 215         | 55                             | Extension for reply within first month                                     |             |
| 116         | 390                            | 216         | 195                            | Extension for reply within second month                                    |             |
| 117         | 890                            | 217         | 445                            | Extension for reply within third month                                     |             |
| 118         | 1,390                          | 218         | 695                            | Extension for reply within fourth month                                    |             |
| 128         | 1,890                          | 228         | 945                            | Extension for reply within fifth month                                     |             |
| 119         | 310                            | 219         | 155                            | Notice of Appeal   |             |
| 120         | 310                            | 220         | 155                            | Filing a brief in support of an appeal                                     |             |
| 121         | 270                            | 221         | 135                            | Request for oral hearing   |             |
| 138         | 1,510                          | 138         | 1,510                          | Petition to institute a public use proceeding                              |             |
| 140         | 110                            | 240         | 55                             | Petition to revive - unavoidable   |             |
| 141         | 1,240                          | 241         | 620                            | Petition to revive - unintentional   |             |
| 142         | 1,240                          | 242         | 620                            | Utility issue fee (or reissue)   |             |
| 143         | 440                            | 243         | 220                            | Design issue fee   |             |
| 144         | 600                            | 244         | 300                            | Plant issue fee  |             |
| 122         | 130                            | 122         | 130                            | Petitions to the Commissioner  |             |
| 123         | 130                            | 123         | 130                            | Petitions related to provisional applications                              |             |
| 126         | 180                            | 126         | 180                            | Submission of Information Disclosure Stmt                                  |             |
| 581         | 40                             | 581         | 40                             | Recording each patent assignment per property (times number of properties) | 40.00       |
| 146         | 710                            | 246         | 355                            | Filing a submission after final rejection (37 CFR § 1.129(a))              |             |
| 149         | 710                            | 249         | 355                            | For each additional invention to be examined (37 CFR § 1.129(b))           |             |
| 179         | 710                            | 279         | 355                            | Request for Continued Examination (RCE)                                    |             |
| 169         | 900                            | 169         | 900                            | Request for expedited examination of a design application                  |             |

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ ) 40

**SUBMITTED BY****Complete (if applicable)**

Name (Print/Type)

John A. Sopp

Registration No. Attorney/Agent)

33,103

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703 243-6333

Signature

Date

August 3, 2001

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